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Approved for use through 09/30/2000. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>UTILITY PATENT APPLICATION TRANSMITTAL</b>		Attorney Docket No. <b>4740-251</b>
		First Inventor or Application Identifier <b>Wanshi Chen</b>
		Title <b>Power-Based Rate Adaptation of Wireless Communication Chann Is</b>
		Express Mail Label No. <b>EL 979045059 US</b>
<b>APPLICATION ELEMENTS</b> <i>See MPEP chapter 600 concerning utility patent application contents.</i>		ADDRESS TO: Mail Stop Patent Application Commissioner for Patents Box Patent Application Washington, DC 20231

22581 U.S. PTO  
10/7/2001  
112503

<p>1. <input checked="" type="checkbox"/> *Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing)</p> <p>2. <input checked="" type="checkbox"/> Specification <b>[Total Pages 26]</b> (preferred arrangement set forth below)</p> <ul style="list-style-type: none"> <li>— Descriptive title to the Invention</li> <li>— Cross References to Related Applications</li> <li>— Statement Regarding Fed sponsored R &amp; D</li> <li>— Reference to Microfiche Appendix</li> <li>— Background of the Invention</li> <li>— Brief Summary of the Invention</li> <li>— Brief Description of the Drawings (if filed)</li> <li>— Detailed Description</li> <li>— Claim(s)</li> <li>— Abstract of the Disclosure</li> </ul> <p>3. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) <b>[Total Sheets 4]</b></p> <p>4. <input checked="" type="checkbox"/> Oath or Declaration <b>[Total Pages 8]</b></p> <ul style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> Newly executed (original or copy)</li> <li>b. <input type="checkbox"/> Copy from a prior application (37 C.F.R. § 1.63(d)) (for continuation/divisional with Box 17 completed) <i>[Note Box 5 below]</i></li> <li>i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b> Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).</li> </ul> <p>5. <input type="checkbox"/> Incorporation By Reference (useable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.</p>	<p>6. <input type="checkbox"/> Microfiche Computer Program (Appendix)</p> <p>7. <input type="checkbox"/> Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)</p> <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> Computer Readable Copy</li> <li>b. <input type="checkbox"/> Paper Copy (identical to computer copy)</li> <li>c. <input type="checkbox"/> Statement verifying identity of above copies</li> </ul>
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<b>ACCOMPANYING APPLICATION PARTS</b>	
<p>8. <input checked="" type="checkbox"/> Assignment Papers (cover sheet &amp; document(s))</p> <p>9. <input type="checkbox"/> 37 C.F.R. § 3.73(b) Statement <input checked="" type="checkbox"/> Power of Attorney (when there is an assignee)</p> <p>10. <input type="checkbox"/> English Translation Document (if applicable)</p> <p>11. <input type="checkbox"/> Information Disclosure <input type="checkbox"/> Copies of IDS Statement (IDS)/PTO-1449 Citations</p> <p>12. <input type="checkbox"/> Preliminary Amendment</p> <p>13. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized)</p> <p>14. <input type="checkbox"/> *Small Entity <input type="checkbox"/> Statement filed in prior application, Statement(s) Status still proper and desired</p> <p>15. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed)</p> <p>16. <input checked="" type="checkbox"/> Other: <u>Express Mail Certification</u></p>	

**\*NOTE FOR ITEMS 1 & 14: IN ORDER TO BE  
ENTITLED TO PAY SMALL ENTITY FEES, A SMALL  
ENTITY STATEMENT IS REQUIRED (37 C.F.R.  
§ 1.27), EXCEPT IF ONE FILED IN A PRIOR  
APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).**

17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary statement:

Continuation  Divisional  Continuation-in-part (CIP) of prior application No: \_\_\_\_\_ / \_\_\_\_\_  
Prior application information: Examiner: Group/Art Unit: \_\_\_\_\_

**18. CORRESPONDENCE ADDRESS**

Customer Number or Bar Code Label **24112** or  Correspondence address below

NAME				
ADDRESS				
CITY		STATE	ZIP CODE	
COUNTRY		TELEPHONE	FAX	
Name (Print/Type)		Registration No. (Attorney/Agent)		44,958
Signature				Date

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 2213-1450.

1599  
12503

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## FEE TRANSMITTAL

Patent fees are subject to annual revision on October 1  
 These are the fees effective December 29, 1999.  
 Small Entity payments must be supported by a small entity statement.  
 otherwise large entity fees must be paid. See Forms PTO/SB/09-12.  
 See 37 C.F.R. §§ 1.27 and 1.28.

TOTAL AMOUNT OF PAYMENT (\$1,206.00)

Complete if Known

Application Number	TBA
Filing Date	
First Named Inventor	Wanshi Chen
Examiner Name	TBA
Group Art Unit	TBA

Attorney Docket No. 4740-251

## METHOD OF PAYMENT (check one)

1.  The Commission is hereby authorized to charge indicated fees and credit any over payments to:

Deposit Account Number 18-1167

Deposit Account Name Coats & Bennett, P.L.L.C.

Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17  Charge the Issue Fee Set in 37 CFR § 1.18 at the Mailing of the Notice of Allowance

2.  Payment Enclosed:  Check  Money Order  Other

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
101	770	Utility filing fee	770.00
106	310	Design filing fee	
107	480	Plant filing fee	
108	760	Reissue filing fee	
114	150	Provisional filing fee	
<b>SUBTOTAL (1)</b>			<b>(\$770.00)</b>

## 2. EXTRA CLAIM FEES

		Fee from below	Fee Paid
Extra Claims			
Total Claims	42	20** = 22 X 18.00 = 396.00	
Independent Claims	2	-3** = 0 X 86.00 = .00	

Multiple Dependent Claims  X  =

\*\* or number previously paid, if greater; For Reissues, see below

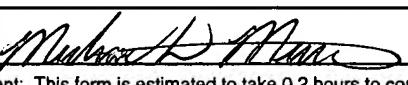
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
103	18	Claims in excess of 20
102	78	Independent claims in excess of 3
104	260	Multiple dependent claim
109	78	**Reissue independent claims over original patent
110	18	**Reissue claims in excess of 20 and over original patent
<b>SUBTOTAL (2)</b>		<b>(\$396.00)</b>

## FEE CALCULATION (continued)

3. Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Paid
105	130	Surcharge - late filing fee or oath	
127	50	Surcharge - late provisional filing fee or cover sheet	
139	130	Non-English specification	
147	2,520	For filing a request for reexamination	
112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	Requesting publication of SIR after Examination action	
115	110	Extension for reply within first month	
116	380	Extension for reply within second month	
117	870	Extension for reply within third month	
118	1,360	Extension for reply within fourth month	
128	1,850	Extension for reply within fifth month	
119	300	Notice of Appeal	
120	300	Filing a brief in support of an appeal	
121	260	Request for oral hearing	
138	1,510	Petition to institute a public use proceeding	
140	110	Petition to revive - unavoidable	
141	1,210	Petition to revive - unintentional	
142	1,210	Utility issue fee (or reissue)	
143	430	Design issue fee	
144	580	Plant issue fee	
122	130	Petitions to the Commissioner	
123	50	Petitions related to provisional applications	
126	240	Submission of Information Disclosure Stmt.	
581	40	Recording each patent assignment per property (times number of properties)	40.00
146	760	Filing a submission after final rejection (37 CFR 1.129(a))	
149	760	For each additional invention to be examined (37 CFR 1.129(b))	
Other fee (specify)			
Other fee (specify)			
*Reduced by Basic Filing Fee Paid			
		<b>SUBTOTAL (3)</b>	<b>(\$40.00)</b>

## SUBMITTED BY

Complete (if applicable)

Typed or Printed Name	Michael D. Murphy	Reg. Number	44,958
Signature		Date	November 25, 2003

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
Ch n, t al. )  
Serial No.: Unknown )  
Filed: )  
Title: **POWER-BASED RATE ADAPTATION OF** )  
**WIRELESS COMMUNICATION CHANNELS** )  
Attorney's Docket No: 4740-251 )

**EXPRESS MAIL CERTIFICATION**  
**LABEL NO.: EL 979045059 US**

Raleigh, North Carolina  
November 25, 2003

MAIL STOP PATENT APPLICATION  
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P.O. BOX 1450  
ALEXANDRIA, VA 22313-1450

Sir:

**EXPRESS MAIL CERTIFICATE LABEL NO.: EL 979045059 US**

**DATE MAILED: November 25, 2003**

I hereby certify that the enclosed US Utility Patent Application Transmittal Form, Fee Transmittal Form (2 Copies), specification and claims, drawings (1 set of 4 sheets), Declaration and Power of Attorney (2 sets of 4 sheets), Assignment (2 sets of 4 sheets) and Recordation Form, and our check number 10645 in the amount of \$1,206.00 are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above and is addressed to: **Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Respectfully submitted,

**COATS & BENNETT, P.L.L.C.**

By:

  
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